

Form PTO-1449 (modified)	Docket No.	Serial No.
	5525-0035.10	09/424,028
	Applicant	
REFERENCES CITED BY APPLICANT	Pallas, et. al.	
	Filing Date	Group
	November 16, 1999	Not yet assigned

U.S. PATENT DOCUMENTS

Examiner's Initial		Document Number	First Inventor	Class /Subclass	Title	Issue Date (Filing Date) (m-d-y)
	P1	5,478,893	Ghosh	525/329.4	End-attachment of oligonucleotides to polyacrylamide solid supports for capture and detection of nucleic acids	12-26-95 (8-5-93)
	P2	5,262,127	Wise	422/98	Solid state chemical micro-reservoirs	11-16-93 (2-12-92)
	P3	4,703,913	Hunkapiller	251/61.1	Diaphragm valve	11-3-87 (4-18-85)
	P4	4,125,828	Resnik	340/146.3	Method and apparatus for automated classification and analysis of cells	11-14-78 (7-17-75)
	P5	Re 34,214	Carlsson	358/93	Method and apparatus for microphotomatering microscope specimens	4-6-93 (2-21-85)
	P6	4,354,114	Karnaukhov	250/458.1	Apparatus for investigation of fluorescence characteristics of microscopic objects	10-12-82 (10-9-79)
	P7	4,727,033	Hijikata	436/69	Analyzing apparatus and method for immunological agglutination reactions	2-23-88 (7-5-85)
	P8	4,605,630	Kung	436/511	Large-liposome agglutination reagent and method	8-12-86 (7-27-83)
	P9	4,661,225	Penniman	204/183.3	Method and apparatus for measuring the electrophoretic mobility of migrating particles	4-28-87 (6-10-85)
	P10	3,413,464	Kamentsky	250/43.5	Method for measuring the nucleic acid in biological cells after enhancement in an acidic solution	11-26-68 (4-29-65)

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U.S. PATENT DOCUMENTS (cont'd)

Examiner's Initial		Document Number	First Inventor	Class /Subclass	Title	Issue Date (Filing Date) (m-d-y)
	P11	4,252,769	Hood	422/50	Apparatus for the performance of chemical processes	2-24-81 (12-26-79)
	P12	5,116,765	Watanabe	436/165	Method for automatic chemical analyzing	5-26-92 (4-18-90)
	P13	5,506,141	Weinreb	435/309.1	Apertured cell carrier	4-9-96 (5-9-94)
	P14	5,604,097	Brenner	436/6	Methods for sorting polynucleotides using oligonucleotide tags	2-18-97 (12-19-94)
	P15	5,203,368	Barstow	137/240	Matrix of valves	4-20-93 (7-29-92)
	P16	5,707,799	Hansmann	435/6	Devices and methods utilizing arrays of structures for analyte capture	1-13-98 (9-30-94)
	P17	5,637,469	Wilding	435/007.21	Methods and apparatus for the detection of an analyte utilizing mesoscale flow systems	6-10-97 (11-30-94)
	P18	5,587,128	Wilding	422/050	Mesoscale polynucleotide amplification devices	12-24-96 (11-14-94)
	P19	4,911,782	Brown	156/633	Method for forming a miniaturized biological assembly	3-27-90 (3-28-88)
	P20	4,908,112	Pace	204/299	Silicon semiconductor wafer for analyzing micronic biological samples	3-13-90 (6-16-88)
	P21	5,741,647	Tam	435/6	Flow through nucleic acid hybridisation uses thereof and a device thereof	4-21-98 (2-16-96)

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	P22	5,578,832	Trulson	250/458.1	Method and apparatus for imaging a sample on a device	11-26-96 (9-2-94)
	P23	5,104,791	Abbott	435/6	Particle counting nucleic acid hybridization assays	4-14-92 (2-9-88)
	P24	5,173,260	Zander	422/57	Beads fused to a test device support	12-22-92 (1-10-91)
	P25	5,922,574	Minter	435/91.1	Method for producing copies of a nucleic acid using immobilized oligonucleotides	7-13-99 (11-22-95)
	P26	5,910,406	Minter	435/6	Manipulating nucleic acid sequences	6-8-99 (12-23-92)
	P27	5,631,734	Stern	356/317	Method and apparatus for detection of fluorescently labeled materials	5-20-97 (2-10-94)
	P28	4,180,739	Abu-Shumays	250/461	Thermostatable flow cell for fluorescence measurements	12-25-79 (12-23-77)
	P29	5,474,796	Brennan	427/2.13	Method and apparatus for conducting an array of chemical reactions on a support surface	12-12-95 (5-27-93)
	P30	5,872,623	Stabile	356/73	Massively parallel detection	2-16-99 (9-26-96)
	P31	5,854,684	Stabile	356/440	Massively parallel detection	12-29-98 (9-26-96)

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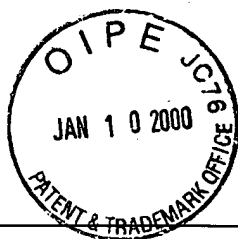
U.S. PATENT DOCUMENTS (cont'd)

Examiner's Initial		Document Number	First Inventor	Class /Subclass	Title	Issue Date (Filing Date) (m-d-y)
	P32	5,900,481	Lough	536/55.3	Bead linkers for immobilizing nucleic acids to solid supports	5-4-99 (11-6-96)
	P33	5,856,174	Lipshutz	435/286.5	Integrated nucleic acid diagnostic device	1-5-99 (1-19-96)
	P34	5,427,946	Kricka	435/291	Mesoscale sperm handling device	6-27-95 (1-21-94)
	P35	5,639,423	Northrup	122/50	Microfabricated reactor	6-17-97 (8-31-92)
	P36	5,705,402	Leland	436/526	Method and apparatus for magnetic microparticulate based luminescence assay including plurality of magnets	1-6-98 (6-8-94)
	P37	5,807,522	Brown	422/50	Methods for fabricating microarrays of biological samples	9-15-98 (6-7-95)
	P38	5,800,992	Fodor	435/6	Method of detecting nucleic acids	9-1-98 (6-25-96)

FOREIGN PATENT DOCUMENTS

Examiner's Initial		Country and Document Number	First Inventor	Title	Publication Date (m-d-y)
	F1	Europe 0 392 546 A2	Drmanac	Process for determination of a complete or a partial contents of very short sequences in the samples of nucleic acids connected to the discrete particles of microscopic size by hybridization with oligonucleotide probes	10-17-90

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	F2	WIPO wo 97/40383 pct/ep97/02039	Gavin	Systems and methods for arraying beads	10-30-97
	F3	WIPO wo 97/31256 pct/us97/01535	Barany	Detection of nucleic acid sequence differences using the ligase detection reaction with addressable arrays	8-28-97
	F4	Europe 0 573 098 A2	Green	Device and method for providing confined reaction and detection	12-8-93
	F5	WIPO wo 95/22058 pct/us95/01886	Stern	Method and apparatus for detection of fluorescently labeled materials	8-17-95
	F6	WIPO wo 94/27719 pct/us94/05896	Brennan	Method and apparatus for conducting an array of chemical reactions on a support surface	12-8-94
	F7	WIPO wo98/08092 pct/us97/14730	Dunnington	Rapid process for arraying and synthesizing bead-based combinatorial libraries	2-26-98
	F8	WIPO wo99/18434 pct/us98/21193	Walt	Self-encoding fiber optic sensor	4-15-99
	F9	WIPO wo98/40726 pct/us98/05025	Walt	Fiber optic sensor with encoded microspheres	9-17-98
	F10	WIPO wo95/25737 pct/us95/03355	Benkovic	Method for identifying members of combinatorial libraries	9-28-95
	F11	WIPO wo98/53093 pct/us98/10719	Seul	Color-encoding and in-situ interrogation of matrix-coupled chemical compounds	11-26-98

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	D1 ✓	Needels et al, "Generation and screening of an oligonucleotide-encoded synthetic peptide library," Proc. Natl. Acad. Sci., 90: 10700-10704 (1993)
	D2 ✓	Ekins and Chu, "Multianalyte microspot immunoassay--Microanalytical 'compact disk' of the future," Clinical Chemistry, 37(11): 1955-1967 (1991)
	D3 ✓	Denkov et al, "Mechanism of formation of two-dimensional crystals from latex particles on substrates," Langmuir 8: 3183-3190 (1992)
	D4 ✓	Giersig and Mulvaney, "Preparation of ordered colloid monolayers by electrophoretic deposition," Langmuir 9: 3408-3413 (1993)
	D5 ✓	Hayashi et al, "Imaging by polystyrene latex particles," Journal of Colloid and Interface Science, 144(2): 538-547 (1991)
	D6 ✓	Lenzmann et al, "Thin-film micropatterning using polymer microspheres," Chem. Mater. 6: 156-159 (1994)
	D7 ✓	Onoda, "Direct observation of two-dimensional, dynamical clustering and ordering with colloids," Physical Review Letters, 55(2): 226-229 (1985)
	D8 ✓	Ohlmeyer et al, "Complex synthetic chemical libraries indexed with molecular tags," Proc. Natl. Acad. Sci., 90: 10922-10926 (1993)
	D9 ✓	Lam et al, "A new type of synthetic peptide library for identifying ligand-binding activity," Nature, 354: 82-84 (1991)
	D10 ✓	Nielsen and Janda, "Toward chemical implementation of encoded combinatorial libraries," Methods: A companion to Methods in Enzymology, 6: 361-371 (1994)
	D11 ✓	Pieranski et al, "Thin colloid crystals," Physical Review Letters, 50(12): 900-903 (1983)

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	D12 ✓	Pieranski, "Two-dimensional interfacial colloidal crystals," Physical Review Letters, 45(7): 569-572 (1980)
	D13 ✓	Lebl et al, "Screening of completely random one-bead one-peptide libraries for activities in solution," Methods: A companion to Methods in Enzymology, 6: 381-387 (1994)
	D14 ✓	Lam and Lebl, "Selectide technology: bead-binding screening," Methods: A companion to Methods in Enzymology, 6: 372-380 (1994)
	D15 ✓	Taylor et al, "Optimization of the performance of the polymerase chain reaction in silicon-based microstructures," Nucleic Acids Research, 25(15): 3164-3168 (1997)
	D16 ✓	Hiraoka et al, "The use of a charge-coupled device for quantitative optical microscopy of biological structures," Science, 238: 36-41 (1987)
	D17 ✓	Brown et al, "Automated system for capture and detection of nucleic acids," Biotechniques, 27: 176-180 (1999)
	D18 ✓	Michael et al, "Randomly ordered addressable high-density optical sensor array," Anal. Chem., 70(7): 1242-1248 (1998)

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